CONFIDENTIAL

6 December 1956

P-144A

MEMORANDUM FOR: THE RECORD

SUBJECT: Trip Report, [redacted] 50X1

50X1

1. A meeting was held in the offices of [redacted] 50X1
Chief Engineer, [redacted] on 4 December 1956, for the purposes of 50X1
discussing both existing and contemplated work with the company.

2. Work is progressing satisfactorily on the carrier current system. At present, all electrical components have been received and construction is being delayed only by the longer lead time necessary for delivery of printed circuit boards used in these units. Latest word from the vendor indicated delivery will be delayed an additional two weeks, thus delaying completion of the systems until mid-February. However, visual inspection of the first prototype indicates that a vastly improved mechanical design has been successfully employed. Electrical characteristics will be checked out at the next liaison visit by the undersigned.

3. Surveillance receivers were discussed and the status of the various proposals requested set forth. The more pertinent items follow:

a. P-191A (Low-Band) [redacted] set forth the reason for a request 50X1
for relaxation of the 50 KC calibration specification. It involves the tracking capability of the tuning elements which require extremely tight mechanical tolerances. In limited prototype quantities, this becomes exceedingly expensive to hold and, instead, it was decided to provide a calibration data sheet with each unit. Moreover, the tracking errors are found only between 80 and 90 mc/s and will not interfere with the operation over other portions of the band. Finally, since tracking becomes important primarily when a receiver is used as a search device, it was felt that when in use as a fixed frequency surveillance receiver it would not be as important.

It was stated that the receivers would be designed and fabricated on an unclassified basis. Persons with knowledge of the Sponsor would be required to have an Agency approval through Secret.

b. P-191B (High-Band) The expected frequency coverage for this unit would be from 50 to 250 mc/s. This, at the moment, is the theoretical design capability of the components involved and will be used as target design values.

Sensitivity would drop below 1 μv at the high end of the band, but would not be above 1.5 μv anywhere across the band.

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Provision would be made for automatic switching to a narrow band IF channel when the receiver is used in the AM mode. This will be approximately 15-20 KC/s wide.

Insofar as possible, the same plug-in units will be used in this receiver as in the low-band unit so as to facilitate the maintenance of both.

4. Since the receivers, if signed off, will be handled as unclassified equipment by the same project engineer as handles the carrier current system at this contractor, the question of over-all security is raised. Namely, is it important to keep the fact that the Sponsor of the receiver contract - unclassified - also is supporting a special Secret project behind locked doors at the same laboratory? This should be checked with TSS/SOO.

50X1

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